Amendments to the Claims

Please amend Claims 1, 3-7, 13, and 22-24. The Claim Listing below will replace all prior versions of the claims in the application.

Claim Listing

1. (Currently amended) A method of staggering channels ~~timing channel allocation~~ in a wireless communications unit comprising:

identifying a first plurality of channels ~~operable~~ dedicated for wireless communication from the wireless communications unit to one or more ~~with a~~ remote wireless communications ~~unit~~ units; ~~and~~

identifying a second plurality of channels dedicated for communication from the one or more remote wireless communications units to the wireless communications unit;

scheduling the first plurality of channels according to a first predetermined cycle; and

scheduling the second plurality of channels ~~for wireless communication~~ according to a second predetermined cycle, wherein each channel in the first and second plurality of channels is dedicated for communication between the wireless communications unit and a single remote wireless communications unit and, wherein the ~~remote wireless communications unit has a remote~~ second predetermined cycle is out of phase with the first predetermined cycle.

2. (Original) The method of claim 1 wherein the wireless communication unit is a base station processor and the remote wireless communication unit is a subscriber access unit.

3. (Currently amended) A system for allocating wireless channels in a wireless communication network comprising:

a wireless communication unit operable for wireless communication with one or more remote wireless communication units via a first wireless link having a first plurality of channels dedicated for communication from the wireless communication unit to the one or more remote wireless communication units;

at least one remote wireless communication unit operable for wireless communication with the wireless communication unit via a second wireless link having a second plurality of channels dedicated for communication from the remote wireless communication unit to the wireless communication unit;

~~a plurality of wireless channels in the wireless communication unit and in the at least one remote wireless communication unit;~~

a local scheduler operable to schedule the first plurality of channels for wireless communication according to a first ~~wireless channels in the wireless communication unit at a local~~ predetermined cycle; and

a remote scheduler operable to schedule the second plurality of channels ~~wireless channels in the remote wireless communication unit at a remote~~ according to a second predetermined cycle, wherein each channel in the first and second plurality of channels is dedicated for communication between the wireless communication unit and a single remote wireless unit and, wherein the ~~local~~ first predetermined cycle is out of phase with ~~and~~ the ~~remote~~ second predetermined cycle ~~are out of phase~~.

4. (Currently amended) The ~~method~~ system of claim 3 wherein the wireless communication unit is a base station processor and the remote wireless communication unit is a subscriber access unit.

5. (Currently amended) A method of allocating wireless channels in a wireless communication network comprising:

identifying ~~at least one forward~~ a first channel ~~operable~~ dedicated for wireless communication from a base station processor to a subscriber access unit;

identifying ~~at least one reverse~~ a second channel ~~operable~~ dedicated for wireless communication from a subscriber access unit to a base station processor;

scheduling the ~~forward~~ first channel for wireless communication according to a ~~forward~~ first cycle; and

scheduling the ~~reverse~~ second channel for wireless communication according to a ~~reverse~~ second cycle, wherein the ~~forward~~ first cycle is out of phase with ~~and~~ the ~~reverse~~ second cycle ~~are out of phase~~.

6. (Currently amended) The method of claim 5 wherein ~~scheduling~~ the ~~forward~~ first channel ~~comprises scheduling~~ is scheduled by a ~~forward~~ first scheduler in the base station processor, and ~~scheduling~~ the ~~reverse~~ second channel ~~comprises scheduling~~ is scheduled by a ~~reverse~~ second scheduler in the subscriber access unit.

7. (Currently amended) The method of claim 5 wherein the ~~forward~~ first cycle corresponds to a forward interval, and the ~~reverse~~ second cycle corresponds to a reverse interval.

8. (Original) The method of claim 7 wherein the forward interval and the reverse interval are equal.

9. (Original) The method of claim 7 wherein the forward interval and the reverse interval correspond to an integral multiple.

10. (Original) The method of claim 7 wherein the forward interval and the reverse interval are between 26 and 27 ms.

11. (Original) The method of claim 7 wherein the forward interval and the reverse interval are between 13 and 14 ms out of phase.

12. (Original) The method of claim 7 wherein the forward interval and the reverse interval are an epoch.

13. (Currently amended) A system for wireless communications comprising:

a base station processor connected to a public access network and operable for wireless communication to one or more subscriber access units via a first plurality of wireless channels;

at least one subscriber access unit in the one or more subscriber access units operable for wireless communication ~~with~~ to the base station processor via ~~the~~ a second plurality of wireless channels;

a scheduler operable to allocate the wireless channels for wireless communication at a predetermined interval, wherein each channel in the first and second plurality of channels is dedicated for communication between the wireless communication unit and a single remote wireless unit and, wherein the scheduler is further operable to schedule the first wireless channels ~~for wireless communication to the subscriber access units~~ according to a forward cycle, and to schedule the second wireless channels ~~for wireless communication to the base station processor~~ according to a reverse cycle, such that the forward cycle is out of phase with ~~and~~ the reverse cycle ~~are out of phase~~.

14. (Original) The system of claim 13 wherein the scheduler further comprises a forward scheduler in the base station processor and a reverse scheduler in the subscriber access unit.

15. (Original) The system of claim 13 wherein the forward cycle occurs at a forward interval and the reverse cycle occurs at a reverse interval.

16. (Original) The system of claim 15 wherein each of the forward channels and each of the reverse channels is allocated for a predetermined duration based on the forward interval and the reverse interval, respectively.

17. (Original) The system of claim 15 wherein the forward interval of the forward cycle and the reverse interval of the reverse cycle are equal in duration.

18. (Original) The system of claim 15 wherein the frequency of the forward interval and the frequency of the reverse interval correspond to an integral multiple.

19. (Original) The system of claim 15 wherein the duration of the forward interval and the duration of the reverse interval is between 26 and 27 ms.

20. (Original) The system of claim 15 wherein the forward interval and the reverse interval are between 13 and 14 ms out of phase.

21. (Original) The system of claim 15 wherein the forward interval and the reverse interval are an epoch.

22. (Currently amended) A computer program product including computer program code for allocating wireless channels in a wireless communication network comprising:

computer program code for identifying ~~at least one forward~~ a first channel ~~operable~~ dedicated for wireless communication to a subscriber access unit;

computer program code for identifying ~~at least one reverse~~ a second channel ~~operable~~ dedicated for wireless communication to a base station processor;

computer program code for scheduling the ~~forward~~ first channel for wireless communication according to a ~~forward~~ first cycle; and

computer program code for scheduling the ~~reverse~~ second channel for wireless communication according to a ~~reverse~~ second cycle, wherein the ~~forward~~ first cycle is out of phase with ~~and~~ the ~~reverse~~ second cycle ~~are out of phase~~.

23. (Currently amended) A computer data signal for allocating wireless channels in a wireless communication network comprising:

program code for identifying ~~at least one forward~~ a first channel ~~operable~~ dedicated for wireless communication to a subscriber access unit;

program code for identifying ~~at least one reverse~~ a second channel ~~operable~~ dedicated for wireless communication to a base station processor;

program code for scheduling the ~~forward~~ first channel for wireless communication according to a ~~forward~~ first cycle; and

program code for scheduling the ~~reverse~~ second channel for wireless communication according to a ~~reverse~~ second cycle, wherein the ~~forward~~ first cycle ~~and~~ is out of phase with the ~~reverse~~ second cycle ~~are out of phase~~.

24. (Currently amended) A system for allocating wireless channels in a wireless communication network comprising:

means for identifying ~~at least one forward~~ a first channel ~~operable~~ dedicated for wireless communication to a subscriber access unit;

means for identifying ~~at least one reverse~~ a second channel ~~operable~~ dedicated for wireless communication to a base station processor;

means for scheduling the ~~forward~~ first channel for wireless communication according to a ~~forward~~ first cycle; and

means for scheduling the ~~reverse~~ second channel for wireless communication according to a ~~reverse~~ second cycle, wherein the ~~forward~~ first cycle ~~and~~ is out of phase with the ~~reverse~~ second cycle ~~are out of phase~~.